

(FILE 'USPAT' ENTERED AT 10:30:30 ON 28 JAN 1998)

L1 16 S POLYMETHYLCYCLOSILOXANE  
L2 1468 S OCTAMETHYLCYCLOTETRASIOXANE  
L3 456 S DECAMETHYLCYCLOPENTASIOXANE  
L4 1520 S L2 OR L3  
L5 25088 S 65/CLAS  
L6 13 S L4 AND L5  
L7 1345 S CYCLIC (3A) SILOXANE  
L8 1 S L5 AND L7  
L9 0 S L4 AND 285/CLAS  
L10 1 S 385/CLAS AND L4

FILE 'JPOABS' ENTERED AT 10:38:00 ON 28 JAN 1998

L11 1 S L1  
L12 64 S L4  
L13 133019 S FIBER OR FIBRE OR WAVEGUIDE OR LIGHTGUIDE  
L14 3 S L12 AND L13

FILE 'EPOABS' ENTERED AT 10:39:42 ON 28 JAN 1998

L15 1 S L14  
L16 1 S L1  
L17 49 S CYCLOSILOXANE  
L18 20 S L13 AND L17

FILE 'USPAT' ENTERED AT 10:41:26 ON 28 JAN 1998

L19 526 S L4 AND L13  
L20 120 S L17 AND L13  
L21 25088 S 65/CLAS  
L22 6 S L21 AND L20

L11 ANSWER 4 OF '4 CA COPYRIGHT 1998 ACS  
 AN 113:236494 CA  
 TI Manufacture of vitreous silica products by vapor-phase oxidation of  
 silica precursors in a flame, and the products obtained  
 IN Wells, Peter John; Sayce, Ian George; Smithson, Alan  
 PA TSL Group PLC, UK  
 SO PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 PI WO 9010596 A1 900920  
 DS W: AU, CA, FI, GB, JP, KR, US  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE  
 AI WO 90-GB384 900314  
 PRAI GB 89-5966 890315  
 DT Patent  
 LA English  
 IC ICM C01B033-18  
 CC 57-1 (Ceramics)  
 AB In the title process, .gtoreq.60% of the SiO<sub>2</sub> in the products is  
 obtained by oxidn. of (a) .gtoreq.1 straight-chain Si compds. having  
 general formula R<sub>3</sub>SiO(SiR<sub>2</sub>O)<sub>n</sub>SiR<sub>3</sub> (n = integer; R is .gtoreq.1 of  
 (substituted) alkyl, (substituted) Ph, OH, and vinyl) and/or (b)  
 .gtoreq.1 volatile, cyclic Si compd. having general formula Si<sub>n</sub>O<sub>n</sub>R<sub>2n</sub>  
 (n = integer >2). The products may be in the form of fume, porous  
 SiO<sub>2</sub> soot, or fully densified bodies, and are not  
 contaminated with Cl. **Octamethylcyclotetrasiloxane** vapor  
 in a N carrier flow was oxidized in a H-O flame to give a  
 soot body that was sintered to give a high-purity vitreous  
 SiO<sub>2</sub> tube contg. <1 ppm OH.  
 ST flame oxidn precursor vitreous silica; siloxane vapor phase oxidn  
 silica; dopant flame oxidn precursor silica  
 IT Cyclosiloxanes  
 Siloxanes and Silicones, reactions  
 RL: RCT (Reactant)  
 (oxidn. of, vapor-phase, in flame, for chlorine-free vitreous  
 silica products)  
 IT Optical fibers  
 (vitreous silica, manuf. of doped, by vapor-phase oxidn. of  
 dopant precursor-contg. siloxanes in hydrogen-oxygen flame)  
 IT Oxidation  
 (gas-phase, of siloxanes and cyclosiloxanes, in flame, for  
 chlorine-free vitreous silica products)  
 IT 109-63-7 13963-57-0  
 RL: USES (Uses)  
 (**cyclosiloxane** vapors contg., flame-oxidn. of, for  
 chlorine-free doped vitreous silica)  
 IT 60676-86-0P, Vitreous silica  
 RL: PREP (Preparation)  
 (fume or soot or densified, manuf. of, by vapor-phase  
 oxidn. of silica precursors in flame)  
 IT 541-02-6, Decamethylcyclopentasiloxane 556-67-2  
 RL: RCT (Reactant)  
 (oxidn. of, vapor-phase, in flame, for chlorine-free vitreous  
 silica products)

(FILE 'HOME' ENTERED AT 10:50:26 ON 28 JAN 1998)

FILE 'CA' ENTERED AT 10:50:45 ON 28 JAN 1998

L1	0 S POLYMETHYLCYCLOSILOXANE
L2	9 S POLYMETHYLCYCLOSILOXANE
L3	2292 S OCTAMETHYLCYCLOTETRAISILOXANE
L4	908 S HEXAMETHYLCYCLOTRISILOXANE
L5	533 S DECAMETHYLCYCLOPENTASILOXANE
L6	21592 S WAVEGUIDE OR LIGHTGUIDE OR LIGHT GUIDE
L7	1243 S CYCLOSILOXANE
L8	3920 S L2 OR L3 OR L4 OR L7
L9	2 S L8 AND L6
L10	9071 S SOOT
L11	4 S L10 AND L8
L12	5261 S FUME NOT L10
L13	7 S L12 AND L8
L14	1582 S HEXAMETHYLDISILOXANE
L15	2 S L14 AND (L10 OR L12)